**Design #2 Rubric: Optimizing Your Solution**

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| Standard P.E. | 4 | 3 | 2 | 1 |
| Make a claim about the merit of a solution to a problem by citing relevant evidence about how it meets the criteria and constraints of the problem | Meets criteria for a 3  AND  Addresses limitations to proposed design. | Claim mentions how proposed solution (including changes made and things kept the same) will better meet all criteria and constraints,  AND  All major aspects of the design (including changes made and things kept the same) are supported by relevant evidence from design #1.  (population counts, behavior obs., abiotic and biotic interactions, abiotic measurements [temp, pH., water quality, light, etc.], health/conditions of organisms, level of human input (measure amnt and freq. of food given, etc.). | Claim mentions how proposed solution will better meet *some* criteria and constraints  OR  Changes to design are not supported by relevant evidence from design #1. | Claim does not mention how proposed solution better meets criteria or constraints of the problem; |
| Obtain and combine information from books and/or other reliable media to explain phenomena or solutions to a design problem | Student uses relevant information regarding *biotic and abiotic* factors to support each change in their new solution. | Student uses relevant information regarding *biotic* factors to support each change in their new solution. | Student uses relevant information regarding *abiotic* factors to support each change in their new solution. | Student uses irrelevant or incorrect information to support each change in their new solution. |